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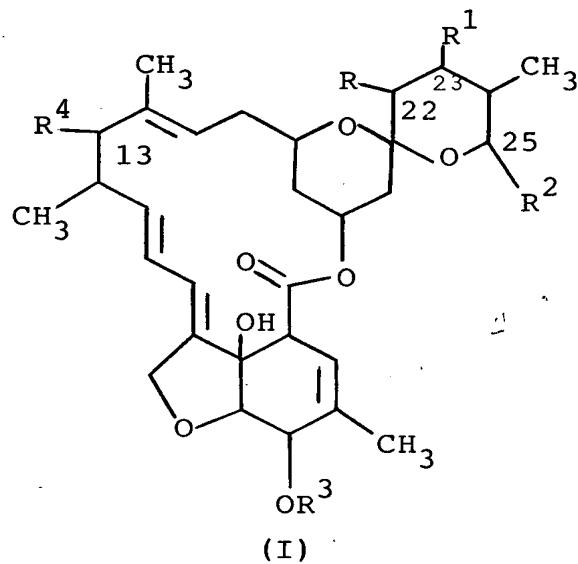
R
K. Coble
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142888

PATENT
SPC 6947/6970/A

ANTIPARASITIC AGENTS AND
PROCESS FOR THEIR PREPARATION

Abstract

The invention provides novel compounds having the
5 formula:



(I)

β wherein R when taken individually is H; R¹ when taken individually is H or OH; R and R¹ when taken together represent a double bond;

ρ 10 R² is an alpha-branched C₃-C₈ alkyl, alkenyl, alkynyl, alkoxyalkyl or alkylthioalkyl group; a C₃-C₈ cycloalkyl, C₅-C₈ cycloalkenyl or C₅-C₈ cycloalkylalkyl group, any of which may be substituted by methylene or one or more C₁-C₄ alkyl groups or halo atoms; or a 3 to 15 6 membered oxygen or sulphur containing heterocyclic

ring which may be substituted by one or more C₁-C₄
alkyl groups or halo atoms;

P₁ R³ is hydrogen or methyl;

L R⁴ is H or 4'-(alpha-L-oleandrosyl)-alpha-L-olean-
5 drosyloxy with the proviso that when R² is alkyl it is
not isopropyl or sec-butyl; when R⁴ is H, each of R and
R¹ is H, and R² is not methyl or ethyl; and when R⁴ is
H, R is H, R¹ is OH, and R² is not 2-buten-2-yl,
2-penten-2-yl or 4-methyl-2-penten-2-yl.

PA10 The compounds are broad spectrum antiparasitic
agents having utility as anthelmintics, ectoparasiti-
cides, insecticides and acaricides. The invention also
provides a process for producing the novel avermectin
15 and milbemycin derivatives by adding a carboxylic acid
or derivative thereof to a fermentation of an avermectin
or milbemycin producing organism.